

Amendments to the claims,

Listing of all claims pursuant to 37 CFR 1.121(c)

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method for transmitting an event message from a first application to at least one second application over an event channel, the method comprising:

generating a message request based on an event at a first application, the message request having a header and a body, the body containing typed event data marshaled for transmission over an event channel;

sending the message request to the event channel;

providing an indicator enabling a user to specify whether to adjust the header if necessary to properly align the body of an event message;

in response, reading the header to obtain information about the event without un-marshaling the body;

creating a wrapper based, at least in part, on the information obtained from the header;

appending the body to the wrapper to create an event message;

determining at least one second application to receive the event message; and

determining if the body of the event message is properly aligned;

if the body of the event message is determined to be misaligned, blocking delivery of the event message based on the indicator; and

if the body of the event message is determined to be properly aligned, delivering the event message to said at least one second application.

2. (Original) The method of claim 1, further comprising:

un-marshaling the body of the event message at the second application for processing the typed event data.

3. (Original) The method of claim 1, wherein said message request comprises a General Inter-ORB Protocol (GIOP) Message Request.

4. (Original) The method of claim 3, wherein the header of said GIOP Message Request includes an operation name.

5. (Original) The method of claim 1, wherein said step of creating a wrapper includes reading the header to obtain an operation name.

6. (Original) The method of claim 5, wherein said step of creating a wrapper includes inserting said operation name into the wrapper.

7. (Original) The method of claim 1, wherein said step of creating a wrapper includes creating a wrapper for each said at least one second application registered with the event channel to receive the event message.

8. (Original) The method of claim 7, wherein said step of creating a wrapper includes inserting an address of each said at least one second application into the wrapper.

9. (Original) The method of claim 1, wherein said appending step includes appending the body to the wrapper without un-marshaling the body.

10. (Original) The method of claim 1, wherein said appending step includes appending the body to the wrapper without re-marshaling the body.

11. (Original) The method of claim 1, further comprising:
retaining a copy of the body;
un-marshaling at least a portion of the body for filtering purposes;
applying a filter to the un-marshaled portion of the body for determining at least one second application to receive an event message based on the message request; and
appending the copy of the body to the wrapper to create an event message for delivery to said at least one second application.

12. (Original) The method of claim 1, further comprising:
storing a copy of the body of the message request.

13. (Original) The method of claim 1, wherein said determining step includes determining at least one second application registered with the event channel to receive the event message.

14. (Original) The method of claim 1, wherein said appending step further comprises:
adjusting the wrapper length if necessary for proper alignment of the body.

15. (Currently amended) The method of claim 1, wherein said appending step further comprises:
~~determining if the body appended to the wrapper is properly aligned; and~~
if the body is determined to be misaligned and the indicator does not specify that misaligned messages are to be blocked, adjusting the wrapper length to provide for proper alignment of the body.

16. (Original) A computer-readable medium having processor-executable instructions for performing the method of claim 1.

17. (Currently amended) The method of claim 1, further comprising:
providing a A-downloadable set of processor-executable instructions for
performing the method of claim 1.

18. (Currently amended) A method for delivering a message based on an event at a supplier object to a consumer object through a communication channel, the method comprising:

receiving at a communication channel a request from a supplier object based on an event, the request including a request header and a payload, the payload comprising

typed event data based on the event marshaled for delivery through the communication channel;

identifying a consumer object to receive a message based on the request;
generating a message header based, at least in part, on the request header;
creating a message for delivery to the consumer object by appending the payload to the message header, the message created without un-marshalling the payload;
providing an indicator enabling a user to specify whether to adjust the message header if necessary to properly align the payload;
determining if the payload of the message is properly aligned; ~~and~~
if the payload is determined to be misaligned, blocking delivery of the message based on the indicator; and
if the payload of the message is determined to be properly aligned, delivering the message to the consumer object.

19. (Original) The method of claim 18, wherein said request received from the supplier object comprises a General Inter-ORB Protocol (GIOP) message.

20. (Original) The method of claim 18, wherein said request received from the supplier object comprises a General Inter-ORB Protocol (GIOP) Message Request.

21. (Original) The method of claim 20, wherein the request header of said GIOP Message Request includes an operation name.

22. (Original) The method of claim 18, wherein said generating step includes extracting an operation name from the request header.

23. (Original) The method of claim 22, wherein said generating step includes inserting said operation name into the message header.

24. (Original) The method of claim 18, wherein said generating step includes inserting an address of the consumer object into the message header.

25. (Original) The method of claim 18, further comprising:
storing a copy of the payload to protect against loss of the payload.
26. (Currently amended) The method of claim 18, further comprising:
if said determining step determines that the payload is misaligned and the message is not blocked based on the indicator, adjusting the message header length to properly align the payload.
27. (Original) The method of claim 18, further comprising:
if said determining step determines that the payload is misaligned, notifying the supplier object of an error condition.
28. (Currently amended) The method of claim 18, further comprising:
~~providing an indicator enabling a user to specify whether to adjust the message header if necessary to properly align the payload; and~~
if said determining step determines that the payload is misaligned, adjusting the message length if said indicator specifies that the message header is to be adjusted.
29. (Canceled)
30. (Original) The method of claim 18, wherein said determining step is based, at least in part, upon determining a General Inter-ORB Protocol (GIOP) version used by the consumer object.
31. (Currently amended) The method of claim 18, wherein said determining step ~~evaluating substep~~ is based, at least in part, upon determining a General Inter-ORB Protocol (GIOP) version used by the supplier object.
32. (Original) A computer-readable medium having processor-executable instructions for performing the method of claim 18.

33. (Currently amended) The method of claim 18, further comprising:
A-providing a downloadable set of processor-executable instructions for
performing the method of claim 18.

34. (Currently amended) A system for sending an event message from a supplier program to a consumer program, the system comprising:

a supplier object request broker for receiving notice of an event at a supplier program, creating a message request based on the event, and transmitting the message request to an event channel, the message request including a header and a body containing typed event data marshaled for transmission through the event channel;

an indicator enabling a user to specify whether to adjust the message header if necessary to properly align the body of a message;

an event channel for receiving the message request, reading the header to obtain information about the event, creating a wrapper based on the information from the header, appending the body to the wrapper to create a message without un-marshalling the body, determining a consumer program to receive the message, and delivering the message to a consumer object request broker associated with the consumer program;
wherein the event channel determines whether the body of the message is properly aligned and blocks delivery of the message to the consumer object request broker based on the indicator if the message is determined to be misaligned; and

a consumer object request broker for receiving the message from the event channel, un-marshaling the body of the message to obtain the typed event data, and providing the typed event data to the consumer program.

35. (Original) The system of claim 34, wherein said event channel operates at the object request broker level.

36. (Original) The system of claim 34, wherein said request comprises a General Inter-ORB Protocol (GIOP) Message Request.

37. (Original) The system of claim 36, wherein the header of said GIOP Message Request includes an operation name.

38. (Original) The system of claim 37, wherein said event channel inserts the operation name from the request header into the wrapper.

39. (Original) The system of claim 34, wherein said event channel inserts an address of the consumer object request broker into the wrapper.

40. (Original) The system of claim 34, further comprising:
a database for storing a copy of the body received by the event channel.

41. (Canceled)

42. (Currently amended) The system of ~~claim 34~~claim 41, wherein said event channel adjusts the wrapper length if said event channel determines the body of the message is misaligned and the indicator allows delivery of the message.

43. (Currently amended) The system of ~~claim 34~~claim 41, wherein said event channel notifies the supplier object request broker of an error if the body of the message is misaligned.

44. (Original) The system of claim 34, wherein said event channel receives a reply message from the consumer object request broker and returns the reply message to the supplier program through the supplier object request broker.

45. (Original) The system of claim 34, wherein said supplier object request broker sends the message request to the event channel in response to an event-pulling message sent by the consumer object request broker.